

# Production Testers Subgroup Charter

## PURPOSE

The purpose of the Interagency Manufacturing Operations Group Subgroup on Production Testers is to discuss and coordinate efforts within the Nuclear Weapons Complex (NWC) in an effort to reduce the cost of designing and maintaining Production Testers.

The focus will be on the design, maintenance and upgrades of the software, electronics, sensors and computer hardware that make up the testers. The formation of this subgroup will allow members to potentially save dollars on the purchase of new equipment, improve the quality of future designs and save on the maintenance cost of Production Testers used within the NWC. Production Testers include any systems or equipment used to produce weapon components, evaluate weapon components (i.e. Stockpile Surveillance Operations) or monitor production operations. In specific, the subgroup will address the design, upgrades and maintenance of Production Testers. In contrast to the IMOG Subgroup on Mechanical Testing, which focuses on how to implement exposure requirements for the environmental conditioning of Gas Transfer Systems using commercially available equipment, this subgroup will focus on the design, maintenance and upgrade of custom testers used throughout the NWC for all types of production and surveillance missions.

Examples of Testers include:

- Gas Transfer System Function Testers
- Automated Tritium Leak Testers
- Automated Helium Leak Testers
- Printed Circuit Board Testers
- Cable Assembly Testers
- Welder Data Acquisition and Control Systems

This subgroup will be the first subgroup focused on software, sensors, electronics and computer hardware used throughout the NWC in the design and maintenance of Production Testers.

## OBJECTIVES

1. Promote interchange of information that will:
  - a. Allow all sites to share best technical practices.

- b. Contribute to the efficient utilization of NNSA funds by sharing experiences on equipment and vendor performance.
  - c. Keep membership abreast of new developments in both fields and of new devices being applied to Production Testers.
  - d. Allow sharing of software and hardware designs
  - e. Provide common solutions to upgrading obsolete computers and electronics
2. Potentially save dollars by negotiating with vendor companies on software and hardware purchases.
  3. Provide an effective forum for solving problems of individual members in the NWC.
  4. Provide a means for sharing and retaining historical knowledge of Production Testers.
  5. Provide young engineers with a forum for technical talks and the exchange of ideas.
  6. Provide a common approach to increased computer/security requirements.
  7. Provide a common approach to DOE Orders, ANSI Standards and the National Electric Code.

## **SUBGROUP MEMBERS**

The subgroup will consist of one or more representatives from each participating NWC agency directly concerned with the development, production or surveillance of nuclear weapon assemblies or components. Members are appointed as representatives of their respective site, and it is assumed that each member will be a spokesperson for their organization. A member unable to attend a meeting may designate a responsible alternate. As a minimum, 4 Sites must be represented at group meetings in order to conduct business. Members shall serve as their management's responsible representatives for contributions of technical information, presentations and meeting arrangements to the Subgroup. Participating agencies are those agencies approved by the Steering Committee.

## **SUBGROUP OFFICERS**

The Subgroup Chairperson will be elected by a majority vote of the members present to serve until another is elected by the Subgroup. The duties include:

1. Notifying members of the time, place and agenda for meetings.

2. Presiding over meetings.
3. Serving as the spokesperson for the Subgroup
4. Issuing meeting minutes and various reports to the Subgroup members and other concerned individuals.
5. Reporting the overall activities of the Subgroup at the regular IMOG Steering Committee meetings.

The Subgroup Vice Chairperson will be elected by a majority vote of the members present to serve until another is elected by the Subgroup. The duties include:

1. Presiding over meetings when the Subgroup Chairperson is absent.
2. Serving as acting Chairperson when the Subgroup chair is vacant.
3. Performing other tasks that may be delegated to him by the Subgroup Chairperson.

The Chairperson may appoint a Secretary to assist in the Subgroup activities. The Secretary will not be a voting member of the Subgroup. The Secretary's duties include the preparation and distribution of meeting notices, minutes, reports and maintenance of official records of the Subgroup.

## **MEETINGS**

The Chairperson as the need dictates will call meetings of the Subgroup. The Chairperson will give due consideration to the request of any member to call or postpone a meeting or to add, amend or delete an item from the agenda. The location of the meetings will be on an approximate rotating basis between plants and Laboratories.